IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1-2 and 6 in accordance with the following:

1. (Currently Amended) An inverter unit grounding method comprising:

connecting a 0V of a circuit system, including a sensor circuit for a sensor in an inverter unit driving a motor, with a shield braid of a shielded cable connecting the sensor circuit and the sensor; and

connecting the shield braid of the shielded cable to an earth plate outside the inverter unit,

wherein the 0V of the circuit system is connected to the earth plate by the shield braid of the shielded cable, causing impedance for frequency that constitutes the basis of noise upon the circuit system to decrease, thereby lessening influence of the noise upon the system.

2. (Currently Amended) An inverter unit, comprising:

a sensor detecting a state of a motor or a machine using the inverter unit; and

a circuit system including a sensor circuit for the sensor,

wherein the sensor circuit is connected with the sensor by a shielded cable having a shield braid, and the shield braid is connected to a 0V of the circuit system and an earth plate outside the inverter unit, and

wherein the 0V of the circuit system is connected to the earth plate by the shield braid of the shielded cable, causing impedance for frequency that constitutes the basis of noise upon the circuit system to decrease, thereby lessening influence of the noise upon the system.

3. (Original) The inverter unit according to claim 2, wherein the sensor detects the position or speed of the motor, the magnetic pole position of a rotor of the motor, the temperature of the motor, or the acceleration of the motor, and the sensor circuit processes signals from the sensor.

4. (Original) A machine using the inverter unit according to claim 3.

5. (Previously Presented) A machine using the inverter unit according to claim 2.

6. (Currently Amended) An apparatus comprising:

means for connecting a 0V of a circuit system, including a sensor circuit for a sensor in an inverter unit driving a motor, with a shield braid of a shielded cable connecting the sensor circuit and the sensor; ~~and~~

an earth plate located outside the inverter unit; and

means for connecting the shield braid of the shielded cable to ~~an~~ the earth plate ~~outside the inverter unit~~,

wherein the 0V of the circuit system is connected to the earth plate by the shield braid of the shielded cable, causing impedance for frequency that constitutes the basis of noise upon the circuit system to decrease, thereby lessening influence of the noise upon the system.